



SEQUENCE LISTING

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BELFORT, GEORGES
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WU, WEI

<120> GENETIC SYSTEM AND SELF-CLEAVING INTEINS DERIVED
THEREFROM, BIOSEPARATIONS AND PROTEIN PURIFICATION
EMPLOYING SAME, AND METHODS FOR DETERMINING CRITICAL,
GENERALIZABLE AMINO ACID RESIDUES FOR VARYING

<130> 454311-2201.1

<140> 09/641,808
<141> 2000-08-17

<150> 60/149,257
<151> 1999-08-17

<160> 26

<170> PatentIn Ver. 3.3

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<223> Description of Artificial Sequence: Illustrative
peptide

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Cys Gly Glu Gln Pro Thr Gly
1 5

<210> 2
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peptide

<400> 2
Ser Ile Glu Gln Asp
1 5

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<223> Description of Artificial Sequence: Illustrative peptide

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Cys Arg Ala Met Gly
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Met Ile Glu Gln Asp
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<210> 5

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<212> PRT

<213> Foot-and-mouth disease virus

<400> 5

Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn
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Pro Gly Pro

<210> 6

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polynucleotide sequence

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<213> Foot-and-mouth disease virus

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Pro Gly Pro

<210> 9
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<213> Saccharomyces cerevisiae

<400> 9
Phe Thr Cys Asn Ala Thr His Glu Leu
1 5

<210> 10
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<213> Mycobacterium leprae

<400> 10
Phe Ala Ala Thr Pro Asn His Leu Ile
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<210> 11
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Val Thr Gly Thr Ala Asn His Pro Leu
1 5

<210> 12
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<213> Pyrococcus sp.

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<210> 13
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 <213> *Porphyra purpurea*

<400> 13
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<210> 14
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 <213> *Mycobacterium tuberculosis*

<400> 14
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<210> 15
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 <213> *Caenorhabditis elegans*

<400> 15
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 1 5

<210> 16
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 <213> *Drosophila melanogaster*

<400> 16
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<210> 17
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 <213> *Xenopus laevis*

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<210> 18
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 <213> *Saccharomyces cerevisiae*

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Asp Tyr Tyr Gly Ile Thr Leu Ser Asp Asp Ser Asp His Gln Phe Leu
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Leu Ala Asn

<210> 19

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<213> Mycobacterium leprae

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Ser Met Asn Arg Phe Asp Ile Glu Val Glu Gly Asn His Asn Tyr Phe
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Val Asp

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Ile Thr Asn

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<213> Pyrococcus sp.

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Ala Gly

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<212> PRT

<213> Porphyra purpurea

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Phe Gln Asn Val Phe Asp Phe Ala Ala Asn Pro Ile Pro Asn Phe Ile
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Ala Asn

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 <213> Mycobacterium tuberculosis

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 Ala Glu

<210> 24
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 1 5 10 15

<210> 26
 <211> 16
 <212> PRT
 <213> Xenopus laevis

<400> 26
 Thr Gly Ala Tyr Ala Pro Leu Thr Ala His Gly Thr Val Val Ile Asp
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